9555 Melbin labs Postab.

QT Enplain the time complenity of At algorithm.

And The time complenity of At algorithm.

Quality of houristic function. In a worst-case algorithm can be O(61d) where be is the branching factor and d is the number of woder low the resulting pathments of woder low the resulting pathments are the limitations of At algorithm?

And The limitations are:

1. Computation lost: 1- Computation Cost: le computationally enpurire de Reliance on Heuriste: heuristic function to estimate the distance to the goal 3. Limited Applicability:

At may struggle with certain types of

Search space. - Dynamic environment - Meinformed seach spacer. Q-3 Discuss At, BFS, OFS, Dijketna. BFS is an algorithm for traversing or searching tree or graph data structure It stock at the woot, explorer our the

SESS Melbin neighbour moder prior to morning to moder at next level.

(ii) DFS:

DFS is another algorithm for transfer or searching tree or graph date

structure.

It stark at the level. It stark at the root, exploses as
far as possible along each branch
before backtracking

(iii) Pijkstra Algorithm:

Dijkstra algorithm is used to find
the shortest path from a single
verten to all other bester.

It iterationly select of the path It iteratively select the verten with the smallest tentative distance from source verter and repetates the distances to its adjacent vertices if shorter path is found. 3. Similed Applicability: The certain Apple of search spaces - Paparic environment - Plainformed death spaces Ris Birand A+ BPS, DPS, Dijketra.